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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/662,781	09/15/2003	Philip L. Fuchs	P27-053	1498
759	90 01/19/2006		EXAM	INER
Henry D. Cole	man		PERLINGER	, SARAH E
714 Colorado A	venue			
Bridgeport, CT 06605-1601			ART UNIT	PAPER NUMBER
			1625	
			DATE MAIL ED: 01/19/2004	4

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Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		10/662,781	FUCHS ET AL.			
		Examiner	Art Unit			
		Sarah E. Perlinger	1625			
	The MAILING DATE of this communication app					
Period for Reply						
WHIC - Exter after - If NO - Failu Any	ORTENED STATUTORY PERIOD FOR REPL CHEVER IS LONGER, FROM THE MAILING D pasions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. It period for reply is specified above, the maximum statutory period re to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status						
1)[Responsive to communication(s) filed on 15 S	September 2003.				
2a) <u></u> □	This action is FINAL . 2b)⊠ This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims					
5) 6) 7)	Claim(s) 1-11 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-11 are subject to restriction and/or	wn from consideration.				
Applicati	on Papers					
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected.	cepted or b) objected to by the lead of a better or b) objected to by the lead in abeyance. See the drawing(s) is objected if the drawing(s) is objected in the drawing(s) is objected to by the lead of the drawing(s) is objected to by the lead of the drawing(s) is objected to by the lead of the lead	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
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Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some colon None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
2) Notic	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:						

Election/Restrictions

I. Claims 1-9, drawn to six-membered carbon termini-differentiated polypropionate stereotetrads and stereopentads, classified in various classes and subclasses depending on species election. If this group is elected, a further election of a single disclosed compound is also required.

- II. Claims 1-9, drawn to seven-membered carbon termini-differentiated polypropionate stereotetrads and stereopentads, classified in various classes and subclasses depending on species election. If this group is elected, a further election of a single disclosed compound is also required.
- III. Claim 10, drawn to a process comprising a tetraacetate cleavage to yield an enantiopure aldehyde-ester, classified in class 568, subclass 497.
- IV. Claim 11, drawn to a process comprising reacting an allyl sulfone with TMS triflate and an amine to yield a six or seven-membered carbon termini-differentiated polypropionate stereotetrad or stereopentad, classified in class 568, subclass 27.

The compounds of groups I-II differ in elements, bonding arrangements and chemical structure to such an extent that a reference anticipating any one group would not render the other group obvious, thus unpatentability of any group would not necessarily imply unpatentability of another group. The search for each diverse core structure as delineated is not coextensive with each other and will constitute an enormous burden.

Invention III is not related to any other group. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, invention III is drawn to a process, which has not been disclosed to be used with any of the other inventions. Invention III differs in function from inventions I and II in that the product derived from invention III is used in the synthesis of the C₁₂- C₁₈ fragment of rhizoxin D wherein the groups I and II products have not been disclosed as being used for this purpose. Furthermore,

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the mode of operation of group III differs substantially from that of group IV. The mode of operations of groups III and IV differ in starting material, method, and end-product.

Inventions IV and I-II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case, at least one of the products in groups I-II can be made using a different process than group IV. For example, (1S, 4S)-3-Benzenesulfonyl-4-ethylcyclohex-2-enol can be synthesized by reacting a 6-membered epoxide with a lithium cuprate (Evarts et al., *J. Am. Chem. Soc.*, 2002, 124, page 11094, Scheme 4). The search for any one individual group would not be coextensive or necessary for another group, i.e. the search for process of group IV would not be coextensive or necessary for example for the search of the compounds of group I or II. Such independent and distinct product or process must be examined separately.

Because these inventions are independent and distinct for the reasons given above and the search required for one group is not required for any other group, restriction for examination purposes as indicated is proper.

Because these inventions are independent and distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Should applicant traverse on the ground that the groups are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the groups to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

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Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Sarah E. Perlinger, whose telephone number is (571) 272-5574. The examiner can normally be reached on Monday through Friday, 8:30 a.m. to 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ms. Cecilia Tsang, can be reached at (571) 272-0562. The fax number for the organization where this application or proceeding is assigned is (571)-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

01/11/06

Celia Chang Primary Examiner Art Unit 1625